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The Tractor & Machinery Association

&

The Construction & Mining Equipment Industry Group

VOLUNTARY CODE OF PRACTICE
FOR
ELECTROMAGNETIC COMPATIBILITY (EMC)
OF
MACHINERY

The code is prepared under the direction of the Tractor & Machinery Association of Australia and the Construction & Mining Equipment Industry Group boards, and endorsed by members of these organisations.

This voluntary code of practice formalises agreements between the Australian Communications and Media Authority and the Tractor & Machinery Association of Australia and the Construction & Mining Equipment Industry Group which include compliance with Broadband and Narrowband electromagnetic emission requirements.

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VOLUNTARY CODE OF PRACTICE FOR ELECTROMAGNETIC COMPATIBILITY OF MOTOR AGRICULTURAL, FORESTRY, CONSTRUCTION, MINING, AND GROUNDS CARE MACHINERY

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VOLUNTARY CODE OF PRACTICE FOR ELECTROMAGNETIC COMPATIBILITY OF AGRICULTURAL, FORESTRY, CONSTRUCTION, MINING, AND GROUNDS CARE MACHINERY

INTRODUCTION

The Australian Communications and Media Authority (hereinafter referred to as the ACMA) has responsibility to achieve effective control over unintended electromagnetic interference through implementation of a system of compliance with relevant standards.

The ACMA framework regulations require that all electrical and electronic equipment comply with relevant emission standards since 1 January, 1997.

Discussions between ACMA and the Tractor & Machinery Association of Australia (hereinafter referred to as the TMA) and the Construction & Mining Equipment Industry Group (hereinafter referred to as the CMEIG) established that compliance with EMC requirements will be ensured through a TMA and CMEIG Code of Practice, which is binding machines manufactured by TMA and CMEIG member companies.

BACKGROUND

The ACMA regulatory arrangement for Electromagnetic Compatibility applies to all electrical and electronic goods supplied into Australia including Machines covered by this code. The regulations for electromagnetic compatibility are specified in the *Radiocommunications Labelling (Electromagnetic Compatibility) Notice 2008* (The EMC Labelling notice).

The EMC Labelling notice requires electrical and electronic devices, and Machines to comply with mandatory emission standards and to be labelled with a regulatory compliance mark. ACMA have implemented an exemption from the EMC Labelling notice for machines supplied by the TMA and CMEIG members where the supply of those machines is in accordance with this code.

1. ENDORSEMENTS

This voluntary Code has been prepared jointly under the direction of the TMA and CMEIG Boards and endorsed by members of these organisations.

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2. DEFINITIONS

For the purpose of this document the following definitions apply:

a) TMA and CMEIG Members

Means the organisation in Australia represented on TMA or CMEIG:

- Which manufacturers and/or assembles and/or imports machinery and engines for distribution in Australia; or
- Which is the accredited representative in Australia of an overseas manufacturer and which is responsible for the distribution of the overseas manufacturer's machinery and engines in Australia and which has adopted this code.

b) For the definitions of Broadband emissions, Narrowband emissions, electrical/electronic sub assemblies (ESA) and technical units refer to ISO 13766 "Earthmoving machinery – Electromagnetic compatibility" and ISO 14982 "Agricultural and Forestry Machinery – Electromagnetic compatibility"

3. SCOPE

This voluntary Code of Practice applies to all agricultural, forestry, grounds care, construction, and mining machinery, and attachments purposely designed for use on these types of machines.

4. BASIC CONCEPTS

Compliance with the relevant standard(s) will be ensured in all cases via the self regulatory process of adherence to the code of practice.

ACMA labelling and standards compliance requirements do not apply to a machine supplied by a TMA or CMEIG member where such machine is in accordance with this code.

Traceability of individual machine compliance status for machines supplied under this code is provided by reference to manufacturer name and series/serial/model numbers.

It is possible to extend compliance status to cover other machine types, either as variants to a model or as a superseding model, provided the conditions of the aforementioned ISO standards are met.

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5. TECHNICAL REQUIREMENTS

Compliance with this code of practice requires that sufficient evaluations have been undertaken to ensure the performance of machines and/or electronic sub-assemblies (ESA's) satisfies the requirements of:

5.1) In the case of Agricultural, Forestry, and Grounds care machinery EMC compliance emission levels are to comply with the technical requirements ISO 14982.

5.2) In the case of Construction, Forestry, and Mining machinery EMC compliance emission levels are to comply with the technical requirements ISO 13766.

Note: Per ISO 11850 forestry machines can be certified to either ISO 14982 or ISO 13766.

6. TEST FACILITIES

Test facilities shall conform to requirements of the standards referred to in section 5.1 or 5.2.

7. IMPLEMENTATION AND TIMING

Upon approval of the ACMA this code of practice shall apply to all equipment tested in accordance to section 5 "Technical requirements".